AMENDMENTS TO THE CLAIMS

This listing of claims will **replace all prior versions and listings of claims in the** application:

LISTING OF CLAIMS:

1. (currently amended): A digital communication system comprising:

a channel state judging section for judging <u>a</u> channel states of an inputted signal by using a field sync of the inputted signal; and

an equalizing section for compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state<u>,</u>

<u>wherein the channel state is one of a static state and a dynamic state.</u>

2. (currently amended): ~~The digital communication system as claimed in claim 1~~ <u>A</u> <u>digital communication system comprising:</u>

<u>a channel state judging section for judging a channel states of an inputted signal by using</u> <u>a field sync of the inputted signal; and</u>

<u>an equalizing section for compensating for a channel distortion of the inputted signal by</u> <u>initializing a parameter on the basis of the judged channel state,</u>

wherein the channel state judging section comprises:

a channel prediction section for predicting the channel states of the inputted signal by means of the field sync;

a plurality of buffers for storing ~~the~~ state information regarding a plurality of channels predicted by means of a plurality of ~~the~~ field syncs;

a calculating section for calculating a difference between the state information regarding ~~the~~ N number of channels stored in ~~the~~ N number of buffers, wherein N is a natural number; and

a judging section for judging the channel state on the basis of the calculated difference.

3. (original): The digital communication system as claimed in claim 2, wherein the judging section judges the channel states by means of a threshold value applied to the calculated difference.

4. (original): The digital communication system as claimed in claim 1, wherein the field sync is a PN sequence.

5. (currently amended): An operation method in a digital communication system, the method comprising the steps of:

(1) judging a channel states of an inputted signal by means of a field sync of the inputted signal; and

(2) compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state,

wherein the channel state is one of a static state and a dynamic state.

6. (currently amended): ~~The method as claimed in claim 5~~An operation method in a digital communication system, the method comprising the steps of:

(1) judging a channel state of an inputted signal by means of a field sync of the inputted signal; and

(2) compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state,

wherein step (1) comprises the steps of:

(a) predicting the channel states of ~~an~~ the inputted signal by means of ~~a~~ the field sync;

(b) storing ~~a~~ state information regarding N ~~number of~~ channels predicted by means of N number of ~~the~~ field syncs in N number of buffers, wherein N is a natural number;

(c) calculating a difference between the state information regarding the N number of the channels stored in the N number of the buffers; and

(d) judging the channel state on the basis of the calculated difference.

7. (currently amended): The method as claimed in claim 6, wherein, in step (d), the channel state is judged by means of a threshold value applied to the calculated difference.

8. (original): The method as claimed in claim 5, wherein the field sync is a PN sequence.

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9. (currently amended): The digital communication system as claimed in claim 2,

wherein a number N of the buffers equals a number N of the channels and a number N of the

field syncs.